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Message Text

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62
ORIGIN PM-03

INFO OCT-01 AF-06 ARA-10 EUR-12 EA-10 ISO-00 DODE-00 L-03

NASA-02 NSC-05 OES-05 CIAE-00 INR-07 NSAE-00 ACDA-10

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DRAFTED BY DOD/DMA:SCHWIMMER/PM/ISO:FJFLEMING
APPROVED BY PM/ISO:GTCHURCHILL
OSD/ISA/FMRA - S GOLDSMITH
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OES/SCI/SA - COL VOGT
ARA/BC - MR ISAACSS/P:MR GATHRIGH
ARA/MEX - MRS LANG
EUR/NE - MR. WORREL
EA/ANP - MR MICHAUD
AF/E - MR BRESLER
---------- 106076
P 192107Z JUN 75
FM SECSTATE WASHDC
TO AMEMBASSY LONDON PRIORITY
AMEMBASSY MEXICO PRIORITY
AMEMBASSY PORT LOUIS PRIORITY
AMEMBASSY SANTIAGO PRIORITY
AMEMBASSY WELLINGTON PRIORITY

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E.O. 11652: N/A
TAGS: MARR, TSPA, OTRA, MX, NZ, CI, MP, UK
SUBJECT: GEOS-3

1. DOD PROPOSES TO INITIATE A SATELLITE OBSERVATION PROGRAM IN SUPPORT OF THE NASA GEOS-3 SATELLITE. GEOS-3 WAS LAUNCHED ON 9 APRIL 1975 AND HAS AN EXPECTED LIFETIME OF APPROXIMATELY 18 MONTHS. PURPOSE OF OBSERVATION PROGRAM IS TO DEMONSTRATE THE UTILITY OF A SATELLITE BORNE RADAR ALTIMETER FOR MEASURING THE GEOMETRY OF THE OCEAN SURFACE AND FOR MEAN SEA LEVEL DETERMINATIONS.
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2. BEGINNING IN MID-JUNE 1975 THE SATELLITE WILL BE USED TO MAP THE SURFACE OF THE WORLD'S OCEANS, TO THE EXTENT THAT POWER PERMITS. THIS MAPPING PROGRAM DEPENDS UPON LOCATION OF DOPPLER TRACKING AND TELEMETRY EQUIPMENT

AT SPECIFIC LOCATIONS WORLDWIDE TO FILL GAPS IN NASA TRACKING AND TELEMETRY NETWORKS.

3. PROJECT REQUIREMENTS ARE OUTLINED BELOW. EMBASSIES IN MEXICO, NEW ZEALAND, CHILE, MAURITIUS, AND UK ARE REQUESTED TO SEEK AT APPROPRIATE LEVEL HOST GOVERNMENT APPROVAL FOR DEPLOYMENT OF DOD TRACKING TEAMS. DETAILED INFORMATION ON PERSONNEL AND SCHEDULING WILL BE PROVIDED AFTER COUNTRY CLEARANCES ARE GRANTED AND PRIOR TO DEPLOY-MENT OF TEAMS AND EQUIPMENTS.

4. (A) FOR MEXICO CITY: DOD PROPOSES TO DEPLOY TELE MENTRY EQUIPMENT AND UP THREE CIVILIAN PERSONNEL TO LA PAZ, ON THE SOUTHERN END OF BAJA CALIFORNIA, DURING GHE PERIOD JANUARY THROUGH MARCH 1976.

(B) FOR WELLINGTON: DOD PROPOSES TO DEPLOY DOPPLER TRACKING EQUIPMENT AND UP TO THREE CIVILIAN PERSONNEL TO INVERCARGILL, NEW ZEALAND, DURING THE TWO PERIODS, JULY -SEPT 1975 AND APRIL -JUNE 1976. DURING THE LATTER PERIOD, TELEMETRY EQUIPMENT WILL BE EMPLOYED IN ADDITION TO THE DOPPLER TRACKING EQUIPMENT. DURING THE INITIAL PERIOD, DOD ALSO PROPOSES TO USE THE DOPPLER TRACKING EQUIPMENT TO ESTABLISH A GEOGETIC POSITION FOR THE BAKER-NUNN CAMERA SITE AT MT. JOHN, AND AIR DEFENSE COMMAND STATION OF OPERATED BY AIR FORCE.

(C) FOR SANTIAGO: DOD PROPOSES TO DEPLOY DOPPLER TRACKING EQIPMENT AND UP TO THREE CIVILIAN PERSONNEL TO EASTER ISLAND DURING JULY-SEPT 1975 AND JANUARY JUNE 1976. TELEMETRY EQUIPMENT WILL BE EMPLOYED IN ADDITION TO THE DOPPLER TRACKING EQUIPMENT FROM APRIL-JUNE 1976. WE UNDERSTAND THE DMA IGS REPRESENTATIVE IN SANTIAGO, MAJOR GEISEWITE (TELEPHONE 68979) HAS ALREADY INITIATED A CLEARANCE REQUEST THROUGH THE CHILIAN MAPPING
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AUTHORITIES.

(C) FOR PORT ST. LOUIS: DOD PROPOSES TO DEPLOY DOPPLER TRACKIING EQUIPMENTS AND UP TO THREE CIVILIAN PERSONNEL TO MAURITIUS DURING THE PERIOD JANUARY -JUNE 1976.

(E) FOR LONDON: DOD PROPOSES TO DEPLOY TRACKING EQUIP-

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MENTS AND UP TO THREE CIVILIAN PERSONNEL TO THE FALKLAND ISLANDS AND TRISTAN DA CUNHA AND GUADALCANAL DURING THE PERIODS OCTOBER 1975 TO JUNE 1976 AND OCTOBER THROUGH DECEMBER 2975 RESPECTIVELY. ADDITIONALLY, CLEARANCE IS REQUESTED FOR SIMILAR DEPLOYMENT AND TO GUADALCANAL FOR THE PERIODS JULY-DECEMBER 1975, AND APRIL-JUNE 1976.
DOPPLER TRACKING EQUIPMENT IS PROPOSED FOR THE FALKLAND ISLANDS AND GUADALCANAL, WHILE TELEMETRY EQUIPMENT IS PROPOSED FOR TRISTAN DA CUNHA. IN THE CASE OF THE FALKLAND ISLANDS PRESENT PLANS ARE TO DEPLOY US CIVILIANS DURING THE PERIOD OCTOBER THROUGH DECEMBER 1975 WITH REPLACEMENT BY UK MILITARY PERSONNEL FROM JANUARY THROUGH JUNE 1976.

5. DOPPLER TRACKING AND SUPPORT EQUIPMENT IS RELATIVELY LIGHTWEIGHT, APPROXIMATELY 500 TO 1000 POUNDS.
SPECIFIC SITING REQUIREMENTS ARE AS FOLLOWS:

(A) OPTICAL HORIZON MUST BE CLEAR OF MAJOR OBSTRUCTIONS ABOVE TEN DEGREES ELEVATION IN ALL DIRECTIONS.

(B) AREA MUST BE FREE OF RADIO TRANSMISSIONS ON RECEIVING FREQUENCIES OF 150 MHZ, 162 MHZ AND 400 MHZ OR HARMONICS THEREOF.

(C) RADIO INTERFERENCE AND BACKGROUND NOISE SOURCES SUCH AS AUTOMOBILE IGNITION, HIGH VOLTAGE TRANSMISSION LINES, HIGH POWER TRANSMITTING EQUIPMENT, HIGHLY INDUSTRIALIZED AREAS, ETC., SHOULD BE AVOIDED.

(D) ELECTRICAL POWER OF 400 WATTS, 50 OR 60 CYCLES SINGLE PHASE 110 OR 220 VOLTS, 24 HOURS A DAY IS DESIRABLE. TEAM CAN PROVIDE POWER SOURCE IF UNAVAILABLE
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LOCALLY. REQUESTS POSTS ADVISE CONCERNING AVAILABILITY.

(E) A FULL-TIME COMMERCIAL OR GOVERNMENT TELETYPE CIRCUIT IN THE VICINITY OF THE EQUIPMENT SITE (OR ACCESS TO AN ESTABLISHED RELIABLE CIRCUIT ON A PART-TIME BASIS) WHICH IS CAPABLE OF ROUTING THE DATA MESSAGE TO THE SATELLITE CONTROL CENTER AT THE APPLIED PHYSICS LABORATORY IN MARYLAND.

(F) AN EXISTING PERMANENT SHELTER FOR STORAGE AND ADMINISTRATIVE WORK WITH A MINIMUM OF APPROXIMATELY 100 SQUARE FEET.

6. THE TELEMETRY RECEIVING EQUIPMENT WEIGHS APPROXIMATELY 1700 POUNDS. SPECIAL SITING OF EQUIPMENT IS

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CONSTRAINED BY REQUIREMENTS AND CHARACTERISTICS OF
TELEMETRY EQUIPMENT SUCH AS:

(A) THE OPTICAL HORIZON MUST BE CLEAR ABOVE FIVE DEGREES
ELEVATION IN ALL DIRECTIONS.

(B) THE AREA MUST BE FREE OF RADIO TRANSMISSIONS ON
RECEIVING FREQUENCY 136.320 MHZ OR SUBHARMONICS
THEREOF.

(C) ELECTRICAL POWER OF 500 WATTS, 50 OR 60 CYCLES,
SINGLE PHASE 115 OR 220 WITHIN 10 PERCENT IS REQUIRED.

(D) A PERMANENT GROUND LEVEL CONCRETE ANTENNA SUPPORT
BASE MUST BE ESTABLISHED AND

(E) RADIO INTERFERENCE RESTRICTIONS AND PART-TIME
TELETYPE CIRCUIT AVAILABILITY SIMILAR TO ITEMS C AND E,
PARA 5.

7. ALL DATA TAKEN FROM THE REQUESTED LOCATIONS ARE
UNCLASSIFIED. HOST COUNTRY PARTICIPATION IS INVITED.
GEODETIC POSITIONS DERIVED FROM DOPPLER TRACKING DATA
CAN BE PROVIDED TO HOST GOVERNMENTS. RAW DOPPLER DATA
CAN ALSO BE PROVIDED, BUT UTILIZATION REQUIRES
SOPHISTICATED DATA REDUCTION CAPABILITIES WHICH ARE
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NOT GENERALLY AVAILABLE. TELEMETRY DATA FROM GEOS-3
WILL BE MADE AVAILABLE TO HOST COUNTRY WITH UNDERSTANDING
THAT DATA WILL NOT BE FURTHER TRANSFERRED TO OTHER
COUNTRIES.
8. ACTION REQUESTED. REQUEST ADDRESSEES SEEK APPRO-
PRIATE CLEARANCES FOR DEPLOYMENT OF PERSONNEL AND
EQUIPMENT SPECIFIED ABOVE. KISSINGER

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Message Attributes

Automatic Decaptioning: X
Capture Date: 01 JAN 1994
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Concepts: SATELLITES, SPACECRAFT TRACKING
Control Number: n/a
Copy: SINGLE
Draft Date: 19 JUN 1975
Decaption Date: 01 JAN 1960
Decaption Note:
Disposition Action: n/a
Disposition Approved on Date:
Disposition Authority: n/a
Disposition Case Number: n/a
Disposition Comment:
Disposition Date: 01 JAN 1960
Disposition Event:
Disposition History: n/a
Disposition Reason:
Disposition Remarks:
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Document Unique ID: 00
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Executive Order: N/A
Errors: N/A
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From: STATE
Handling Restrictions: n/a
Image Path:
ISecure: 1
Legacy Key: link1975/newtext/t19750633/aaaabeen.tel
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Locator: TEXT ON-LINE, ON MICROFILM
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To: LONDON MULTIPLE
Type: TE
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